



FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO. I-1-0065.10US	SERIAL NO. 10/663,240
	APPLICANT Bolgiano et al.	
	FILING DATE September 16, 2003	GROUP <del>2016</del>

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,081,748	03/1978	Batz			
		4,099,121	07/1978	Fang			
		4,128,809	12/1978	Kage			
		4,426,712	01/1984	Gorski-Popiel			
		4,530,087	07/1985	Yamamoto			
		4,599,734	07/1986	Yamamoto			
		4,644,351	02/1987	Zabarsky			
		4,675,863	06/1987	Paneth et al.			
		4,727,590	02/1988	Kawano et al.			
		4,780,885	10/1988	Paul et al.			
		4,799,252	01/1989	Eizenhoffer et al.			
		4,901,307	02/1990	Gilhausen et al.			
		5,031,193	07/1991	Atkinson et al.			
		5,043,736	08/1991	Darnell et al.			
		5,046,066	09/1991	Messenger			
		5,058,200	10/1991	Huang et al.			
		5,081,641	01/1992	Kotzin et al.			
		5,081,643	01/1992	Schilling			
		5,088,108	02/1992	Uddenfeldt et al.			
		5,097,484	03/1992	Akaiwa			
		5,101,501	03/1992	Gilhausen et al.			
		5,103,459	04/1992	Gilhausen et al.			
		5,109,390	04/1992	Gilhausen et al.			
		5,124,915	06/1992	Krenzel			
		5,128,925	07/1992	Dornstetter et al.			

EXAMINER	DATE CONSIDERED
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EXAMINER Initial citation considered whether or not citations in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	<p>FILING DATE September 16, 2003</p>	<p>GROUP <del>2616</del></p>

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,155,689	10/1992	Wortham			
		5,166,951	11/1992	Schilling			
		5,177,765	1/5/1993	Holland et al.			
		5,193,101	09/1993	McDonald et al.			
		5,203,018	04/1993	Hirose			
		5,208,756	05/1993	Song			
		5,214,789	05/1993	George			
		5,218,367	06/1993	Sheffer et al.			
		5,218,618	06/1993	Sagey			
		5,223,844	06/1993	Mansell et al.			
		5,227,802	07/1993	Pullman			
		5,235,633	08/1993	Nass et al.			
		5,247,356	09/1993	Ciampa			
		5,260,943	11/1993	Comroe et al.			
		5,260,967	11/1993	Schilling			
		5,280,472	01/1994	Gilhousen et al.			
		5,283,767	02/1994	McCoy			
		5,289,499	02/1994	Weerackody			
		5,289,527	02/1994	Tiedemann, Jr.			
		5,293,645	03/1994	Sood et al. <sup>1</sup>			
		5,305,353	04/1994	Weerackody			
		5,321,696	04/1994	Buchholz et al.			
		5,323,384	06/1994	Norwood			
		5,345,467	09/1994	Lomp et al.			
		5,347,535	09/1994	Karasawa et al.			
		5,365,516	11/1994	Jandrell			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,367,539	11/1994	Copley			
		5,371,734	12/1994	Fischer			
		5,371,780	12/1994	Amitay			
		5,373,502	12/1994	Turban			
		5,420,883	05/1995	Swensen et al.			
		5,430,769	07/1995	Patsiokas et al.			
		5,442,625	08/1995	Gitlin et al.			
		5,479,448	12/1995	Seshadri			
		5,481,533	1/1996	Honig et al.			
		5,483,244	01/1996	Grube et al.			
		5,483,668	01/1996	Malkamaki et al.			
		5,506,863	4/9/1996	Meidan et al.			
		5,513,176	04/1996	Dean et al.			
		5,533,011	07/1996	Dean et al.			
		5,533,013	07/1996	Leppanen			
		5,553,076	9/3/1996	Behtash et al.			
		5,584,057	12/1996	Dent			
		5,614,914	03/1997	Bolgiano et al.			
		5,625,876	04/1997	Gilhousen et al.			
		5,663,990	09/1997	Bolgiano et al.			
		5,684,793	11/1997	Kiema et al.			
		5,748,669	05/1998	Yada			
		5,761,196	6/2/1998	Ayerst et al.			
		5,781,541	07/1998	Schnieder			
		5,859,879	01/1999	Bolgiano et al.			

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	FILING DATE September 16, 2003	GROUP <del>2010</del>

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		0528090	02/1993	EP				
		2237706	05/1991	GB				
		2259430	03/1993	GB				
		H01-314443	12/1989	JP			X**	
		H02-3007	01/1990	JP			X	
		H02-302133	06/1992	JP			X	
		H03-177669	08/1991	JP			X	
		H03-235077	10/1991	JP				
	*	H05-244051	09/1993	JP			X**	
		H06-097914	04/1994	JP			X**	
		S53-109328	08/1978	JP			X	
		S63-065723	09/1989	JP			X	
	*	S63-274236	11/1988	JP			X**	
		S63-286027	11/1988	JP			X	
		H05-211470	08/1993	JP <sup>2</sup>			X**	
		H04-502844	08/1993	JP <sup>3</sup>			X	
		H06-501349	01/1992	JP <sup>5</sup>			X	
		199210890	06/1992	WO				
		199306669	04/1993	WO				
		199107036	05/1991	WO <sup>4</sup>				
		199200639	01/1992	WO <sup>6</sup>				

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OTHER DOCUMENTS		
EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
		"Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System", TIA/EIA/IS-95-A, TIA Interim Standard, (May 1995).
		"Ultraphone, System Description GP110," InterDigital Communications Corporation, pgs. 1-17, (October 1993).
		"Ultraphone, System Technical Specification GP130, Interdigital Communications Corporation, pgs. 1-12, (January 1994).
		AZAD ET AL., "Multirate Spread Spectrum Direct Sequence CDMA Techniques", The Institution of Electrical Engineers, pp. 4/1-4/5 (1994).
		BLANZ ET AL., "Performance of a Cellular Hybrid C/TDMA Mobile Radio System Applying Detection and Coherent Receiver Antenna Diversity, IEEE, pgs. 568-579, (May 1994).
		ERCEG ET AL., "Urban/Suburban Out-of-Sight Propagation Modeling," IEEE Communications Magazine, pgs. 56-61, (June 1992).
		ESMAILZADEH ET AL., "Direct Sequence Spread Spectrum Communication in Selection Diversity Channels by Time Division Duplex Technique," IEEE, pgs. 345-348, (1992).
		ESMAILZADEH ET AL., "Quasi-Synchronous Time Division Duplex CDMA", IEEE, pgs. 1637-1641, (1994).
		ESMAILZADEH ET AL., "Time Division Duplex Transmission of Direct Sequence Spread Spectrum Signals in Multipath Channels", IEEE, pgs. 1572-1576, (1994).
		GERLACH ET AL., "Base Station Transmitter Antenna Arrays With Mobile to Base Feedback", IEEE 1993 Conference Record of the Twenty-Seventh Asilomar Conference on Signals, Systems, and Computers, Vol. 2, pgs. 1432-1436, (November 1993).
		GHASSMZADEH ET AL., "Indoor Propagation and Fading Characterization of Spread Spectrum Signal at 2 GHz," IEEE, pgs. 56-60, (1992).

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		JAKES, JR., "Microwave Mobile Communications," Bell Telephone Laboratories, North Andover, MA, pgs. 309-323 and 535-541, (1974).
		KAUFMANN ET AL., "Digital Spread-Spectrum Multipath-Diversity Receiver for Indoor Communications," IEEE, pgs. 1038-1041, (1992).
		KAVEHRAD ET AL., "Direct-Sequence Spread Spectrum with DPSK Modulation and Diversity for Indoor Wireless Communications," IEEE, pgs. 224-236, (1987).
		NAGUIB ET AL., "Performance of CDMA Cellular Networks With Base-Station Antenna Arrays: The Downlink", IEEE Internal Conference on Communications, Vol. 2, pgs. 795-799, (May 1994).
		PICKHOLTZ ET AL., "Field Tests Designed to Demonstrate Increased Spectral Efficiency for Personal Communications," IEEE Globcom, pgs. 878-882, (1991).
		SCHILLING ET AL., "PCN Field Test Experiments Using Broadband-CDMA," IEEE, pgs. 321-324, (December 1991).
		SCHILLING ET AL., "Spread Spectrum for Commercial Communications," IEEE Communications Magazine, Vol. 29, Issue 4, pgs. 66-79, (April 1991).
		SESHADRI ET AL., "Two Signaling Schemes For Improving The Error Performance Of Frequency-Division-Duplex (FDD) Transmission Systems Using Transmitter Antenna Diversity," Secaucus, NJ, New York, IEEE, US, pgs 508-511, (May 18, 1993).
		SESHADRI ET AL., "Advanced Techniques For Modulation, Error Correction, Channel Equalization, And Diversity," AT&T Technical Journal, US, American Telephone and Telegraph Co., New York, Vol. 72, No. 4, pgs. 48-63, (July 1, 1993).
		TIA/EIA Interim Standard; Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System; TIA/EIA/IS-95, (July 1993).
		WHANG ET AL., Performance Evaluation of a Direct-Sequence Spread-Spectrum Multiple-Access with Microscopic and Macroscopic Diversity in Mobile Radio Environment, IEEE, pgs. 803-806, (1993).
		WINTERS, "The Diversity Gain Of Transmit Diversity In Wireless Systems With Rayleigh Fading," New Orleans, New York, IEEE, US, pgs. 1121-1125, (May 1, 1994).

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	<p>XIANG ET AL., "TDM/CDMA VSAT Network Integrating Voice/Data Service And Its Operation Management," IEEE, pgs. 476-480, (1992).</p>

<sup>1</sup> Corresponds to JP H05-211470; <sup>2</sup> Corresponds to US 5,293,645; <sup>3</sup> Corresponds to WO 199107036; <sup>4</sup> Corresponds to JP H04-502844; <sup>5</sup> Corresponds to WO 199200639; <sup>6</sup> Corresponds to H06-501349

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